Exercises

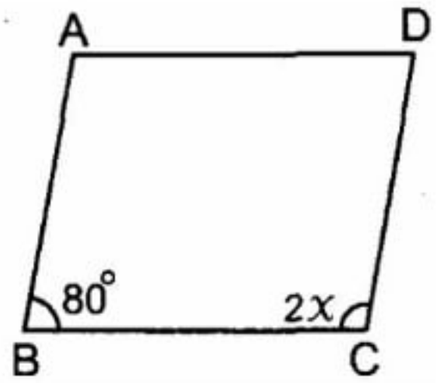
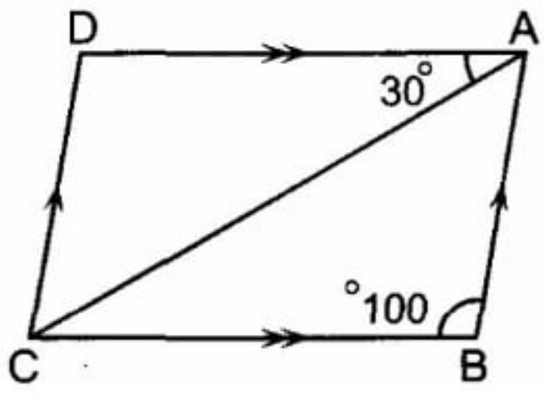
[A] : Choose The Correct Answer : -

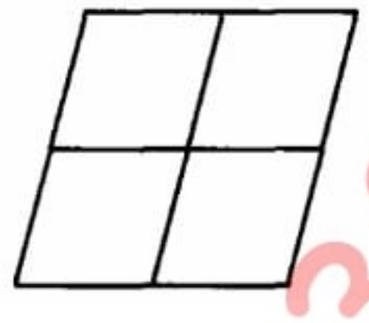
1	The ratio between the perimeter of the square and its side length equal ..... A) 1 : 3 B) 3 : 1 C) 1 : 4 D) 4 : 1	D
2	The ratio between the perimeter of the rhombus and its side length is ..... A) 1 : 3 B) 3 : 1 C) 1 : 4 D) 4 : 1	D
3	The ratio between the perimeter of the equilateral triangle and its side length is ..... A) 1 : 3 B) 3 : 1 C) 1 : 4 D) 4 : 1	B
4	The ratio between the side length of the equilateral triangle and its perimeter is ..... A) 1 : 3 B) 3 : 1 C) 1 : 4 D) 4 : 1	A
5	The ratio between the side length of the rhombus and its perimeter is ..... A) 1 : 3 B) 3 : 1 C) 1 : 4 D) 4 : 1	C
6	The ratio between the side length of the square and its perimeter is ..... A) 1 : 3 B) 3 : 1 C) 1 : 4 D) 4 : 1	C
7	The ratio between the diameter of the circle and its circumference is ..... A) 1 : π B) 1 : 2 π C) π : 1 D) 2 π : 1	A
8	The ratio between the radius of the circle and its circumference is ..... A) 1 : π B) 1 : 2 π C) π : 1 D) 2 π : 1	B

9	The ratio between the circumference of the circle and its is radius ..... A) $1 : \pi$ B) $1 : 2\pi$ C) $\pi : 1$ D) $2\pi : 1$	D
10	The ratio between the circumference of the circle and its is diameter..... A) $1 : \pi$ B) $1 : 2\pi$ C) $\pi : 1$ D) $2\pi : 1$	C
11	The side length of a square = 3 cm. , then the ratio between its side length and its perimeter equals ..... A) 1 : 3 B) 3 : 1 C) 1 : 4 D) 4 : 1	C
12	The ratio among $\frac{1}{3} : \frac{1}{4}$ = ... A) 1 : 2 B) 3 : 4 C) 4 : 3 D) 1 : 4	C
13	The ratio between 300 gm. and $1\frac{1}{3}$ kg = ... A) 1 : 2 B) 1 : 5 C) 1 : 10 D) 1 : 30	B
14	The ratio between 18 hours and one day =.....(in the simplest form) A) 4 : 3 B) 3 : 4 C) 3 : 2 D) 2 : 3	B
15	The ratio between 12 kirats and 2 feddans = ... A) 1 : 2 B) 1 : 4 C) 2 : 3 D) 4 : 1	B
16	125 piasters : 5 pounds = ... (in the simplest form) A) 4 : 1 B) 1 : 4 C) 25 : 1 D) 1 : 25	B
17	A machine irrigates 15 feddans in 10 hours , then its rate =.....feddans/hour. A) 15 B) 10 C) 1.5 D) 1	C
18	If Hazem drinks 21 glasses of milk weekly , then the rate of what he drinks daily is ..... glasses A) 3 B) 7 C) 14 D) 20	A

19	An agricultural machine ploughs 14 feddans in 3.5 hours , then the rate of performance of the machine in Feddan per hour is ..... A) 0.5 B) 8 C) 4 D) 49	C
20	If A : B = 2 : 3 , B : C = 3 : 5 , then A : C = ... A) 2 : 3 B) 2 : 5 C) 3 : 5 D) 3 : 2	B
21	If the ratio among the measurements of the angles of a triangle is 1 : 2 : 3 , then the measure for the smallest angle is ..... A) 10 B) 45 C) 30 D) 60	C
22	If a : b = 50 % , b : c = 2 : 3 , then a : c = ... A) 1 : 2 B) 2 : 3 C) 1 : 3 D) 3 : 1	C
23	From the properties of the proportion , then the product of the extremes = the product of the ..... A) Ratio B) Means C) Area D) Percentage	B
24	If $\frac{3}{4} = \frac{X}{20}$, then X = ... A) 30 B) 6 C) 15 D) 60	C
25	If $\frac{2}{5} = \frac{X}{20}$, then X – 2 = ... A) 8 B) 4 C) 6 D) 2	C
26	If $\frac{8}{X} = 0.5$, then X = ... A) 4 B) 8 C) 16 D) 40	C
27	If $\frac{A}{4} = 25\ \%$, then A = ... A) 10 B) 20 C) 1 D) 100	C
28	If $\frac{X+12}{6} = 4$, then X = ... A) 24 B) 12 C) 6 D) 8	B

29	If the numbers 4 , X , 12 and 18 are in proportional , then the value of X = ... A) 2 B) 3 C) 6 D) 9	C
30	The percentage is a ratio which second term is ..... A) 10 B) 100 C) 1000 D) 10 000	B
31	$1\frac{3}{4}$ = ... % A) 25 B) 75 C) 125 D) 175	D
32	20 % of 200 pounds = ...pounds A) 10 B) 20 C) 30 D) 40	D
33	62.5 % = $\frac{\text{.....}}{8}$ A) 1 B) 3 C) 5 D) 7	C
34	32 % + 27 % + ...% = 100 % A) 32 B) 27 C) 41 D) 100	C
35	A class has 40 pupils, if 32 of them are attendant , then the percentage of absentees =..... % A) 8 B) 32 C) 40 D) 20	D
36	If 45 % of X = 90 , then X =..... A) 200 B) 100 C) 300 D) 20	A
37	If a length in drawing is 2 cm. and its real length is 20 m. , then the drawing scale equals ..... A) 1 : 10 B) 1 : 100 C) 1 : 1000 D) 1 : 10 000	C
38	The length of an insect in a picture is 4 cm. and its real length is 2 millimeters , then the drawing scale is..... A) 20 : 1 B) 2 : 1 C) 1 : 2 D) 1 : 20	A

39	The form of the equal ratios $\frac{2}{3} = \frac{4}{6} = \frac{8}{12}$ is called..... A) Ratio B) Rate C) Percentage D) Proportion	D
40	If the length of Suez Canal on a map of drawing scale 1 : 1 100 000 is 15 cm. , then its real length in km. equals ..... A) 155 B) 165 C) 170 D) 185	B
41	The sum of measures of any two consecutive angles in the parallelogram ..... A) 360 B) 180 C) 90 D) 60	B
42	The two diagonals are equal in length and perpendicular in ..... A) square B) triangle C) rhombus D) rectangle	A
43	The diagonals are perpendicular and not equal in length in ..... A) square B) triangle C) rhombus D) rectangle	C
44	The diagonals are equal and not perpendicular in length in ..... A) square B) triangle C) rhombus D) rectangle	D
45	***In the opposite figure :*** ABCD is a parallelogram in which m (∠ B) = 80° and m (∠ C) = 2 x , then the value of x in degrees = ...  A) 100 B) 80 C) 50 D) 40	C
46	***In the opposite figure :*** ABCD is a parallelogram , m (∠ B) = 100° and m (∠ CAD) = 30° , then m (∠ BAC) = ... °  A) 50 B) 130 C) 70 D) 60	A

47	***In the opposite figure :*** The number of parallelograms which can be obtained is .....  A) 4 B) 5 C) 7 D) 9	D
48	If one of the angles of the parallelogram is right and two of its adjacent sides are equal in length , then it is called ..... A) square B) triangle C) rhombus D) rectangle	A
49	If two adjacent sides in a parallelogram are equal in length and its diagonals are perpendicular ,then it is called ..... A) square B) triangle C) rhombus D) rectangle	A
50	The centimetre cube is a unit for measuring the ..... A) Length B) Volume C) Area D) Perimeter	B
51	The area of the base of a cuboid is 6 cm, and its height is 7 cm. , then its volume = ... cm^3 A) 67 B) 42 C) 100 D) 76	B
52	The cuboid with equal dimensions is called ..... A) Circle B) Cube C) Cone D) Cylinder	B
53	The volume of cuboid whose dimensions are 2 cm. 4 cm. and 6 cm. A) 48 cm^2 B) 48 cm^3 C) 48 cm D) 48 cm^4	B
54	The edge length of a cube is 5 cm. , then its volume cm^3 A) 25 B) 125 C) 5 D) 250	B
55	The edge length of a cube is 0.2 dm. , then its volume ..... cm^3 A) 2 B) 8 C) 20 D) 200	B

56	The edge length of a cube = 9 cm. , then the sum of all its edge lengths is ..... A) 90 B) 900 C) 108 D) 1080	C
57	The volume of a cuboid with a squared base of side length 6 cm. and its height is 10 cm. equals ..... cm^3 A) 60 B) 120 C) 360 D) 600	C
58	If the volume of a cuboid is 24 cm^3 and the area of its base is 8 cm^2 , then its height = ... cm A) 3 B) 6 C) 192 D) 0.3	A
59	The volume of a cuboid equals 400 cm^3 and its base is with length = 8 cm. and width = 5 cm., then its height equals ..... cm A) 50 B) 10 C) 80 D) 20	B
60	The base perimeter of a cube is 36 cm, then its volume = ... cm^3 A) 9 B) 81 C) 729 D) 108	C
61	If the sum of the edge lengths of a cube = 144 cm. , then its volume equals ..... A) 144 cm B) 144 cm^2 C) 1728 cm D) 1728 cm^3	D
62	If the volume of a cube = 0.125 cm^3 , then its edge length =.....cm. A) 25 B) 2.5 C) 5 D) 0.5	D
63	If the volume of the cube equals 125 dm^3 , then the length of its edge = ...dm A) 5 B) 6 C) 7 D) 8	A
64	The volume of the cube is 125 cm^3 , then its base area = ... A) 25 cm^2 B) 25 cm C) 5 cm^2 D) 5 cm	A
65	4.63 litres = ... cm^3 A) 463 B) 4630 C) 46 300 D) 46.3	B

66	$12\ dm^3 =$ ..... cm^3 A) 12 B) 120 C) 1200 D) 12000	D
67	$\frac{3}{4}$ litre = ... A) 75 ml B) 750 cm^3 C) 75 dm^3 D) 0.075 m^3	B
68	$2.5\ cm^3$ = ...ml A) 2.5 B) 25 C) 250 D) 2500	A
69	0.75 litre = ...dm^3 A) 0.75 B) 7.5 C) 75 D) 750	A
70	$1500\ cm^3$= ..... litres A) 1500 B) 150 C) 15 D) 1.5	D
71	$7.5\ m^3$ = ...dm^3 A) 750 B) 75 C) 750 000 D) 7500	D
72	$6500\ dm^3$ = ... m^3 A) 6.5 B) 65 C) 650 D) 6500 000	A
73	$300\ mm^3$ = ...cm^3 A) 0.3 B) 0.03 C) 0.003 D) 0.0003	A
74	.....is quantitative data. A) Address B) tallness C) Blood type D) Date of birth	B
75	The opposite data are quantitative except ..... A) address B) tallness C) weight D) age	A
76	The opposite data are quantitative except ..... A) weight B) age C) tallness D) Date of birth	D

77	The given data are descriptive except the ..... A) Age B) Address C) Blood type D) Date of birth	A
78	If the values of a frequency distribution lie between (20 ,60) , then the range of this distribution equals ..... A) 20 B) 60 C) 80 D) 40	D
79	If the maximum mark of marks of a set of pupils marks was 57 and the minimum mark was 29 , then the range = ... A) 86 B) 28 C) 68 D) 82	B
80	If 78 is the greatest individual of a set and the range = 39 , then the smallest individual of this set = ... A) 39 B) 78 C) 50 D) 1800	A
81	The range of the values : 7 , 3 ,6 , 9 and 5 = ... A) 3 B) 4 C) 5 D) 6	D
82	If 25 is the smallest individual of a set and the range is 37 , then the greatest individual of this set = ... A) 12 B) 25 C) 37 D) 62	D
83	If the range of the marks distribution of mathematics equals 40 and the length of a set equal 5 , then the number of sets equals ..... A) 35 B) 45 C) 8 D) 20	C
84	The difference between the greatest individual and the smallest individual of a set of values is called ..... A) Range B) Ratio C) Percent D) Proportion	A

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Choose the correct answer :

1. The range of the set of values : 7 , 3 , 6 , 9 and 5 is .....

   (2 *or* 4 *or* **6** *or* 12)

2. $\frac{3}{4}$ = ... (in decimal form) (0.2 *or* 0.5 *or* 0.25 *or* **0.75**)

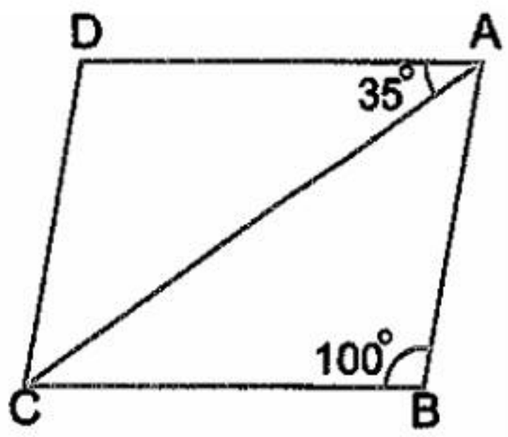
3. An agricultural tractor ploughs 28 feddans in 4 hours , then the time which is needed to plough 42 feddans is ..... hours.

   (4 *or* **6** *or* 7 *or* 8)

4. **In the opposite figure :**

   ABCD is a parallelogram. , then

   m (∠ ACD) = ...



   (35° *or* **45°** *or* 100° *or* 180°)

5. If $\frac{2}{5} = \frac{x}{15}$, then x = ... (2 *or* 5 *or* **6** *or* 15)

6. The following data are descriptive data except .....

   (favorite colour. *or* **age.** *or* birth place. *or* blood species.)

7. If one angle of a parallelogram is right , then it is called a .....

   (**rectangle.** *or* square. *or* rhombus. *or* cube.)

8. $\frac{24}{5}$ = ... ($4\frac{1}{5}$ *or* $3\frac{2}{5}$ *or* $4\frac{4}{5}$ *or* $2\frac{4}{5}$)

9. If the marks of 6 students in one exam are 29 , 33 , 57 , 40 , 36 and 49 , then the range of these marks = ... (32 *or* 33 *or* **28** *or* 86)

10. If $\frac{4}{6} = \frac{12}{x}$, then $x + 2$ = ... (16 *or* 18 *or* **20** *or* 22)

11. $1\frac{3}{4}$ = ... % (25 *or* 50 *or* 75 *or* **175**)

12. $\frac{513}{614}$ ..... $\frac{432}{145}$ (> or **<** or = or ≥)

13. The range of the values 50 , 25 , 35 and 20 is .....
(10 or 20 or **30**)

14. If $\frac{2}{3} = \frac{10}{x}$, then x = ... (6 or **15** or 20)

15. The two diagonals are perpendicular in .....
(rectangle or **rhombus** or triangle or parallelogram)

16. If the real length is 6 m. and the drawing length is 6 cm. , then the drawing scale is ..... (1 : 10 or 1 : 1 000 or **1 : 100**)

17. If a : b = 3 : 5 and b : c = 5 : 7 , then a : c = ...
(2 : 3 or 3 : 4 or **3 : 7** or 8 : 7)

18. 1 – 25 % = ... (**$\frac{3}{4}$** or $\frac{1}{4}$ or $\frac{1}{8}$ or $\frac{3}{8}$)

19. If the numbers 3 , 5 , x and 20 are proportional , then $x + 3$ = ...
(6 or 12 or **15** or 21)

20. If the drawing length is 6 cm. , and the real length is 6 metres , then the drawing scale = ... (1 : 10 or **1 : 100** or 1 : 1000 or 1 : 1)

21. $\frac{3}{4}$ litre = ... mL. (0.75 or 7.5 or **750** or 75)

22. If 45% of x = 90 , then x = ... (20 or 100 or **200** or 300)

23. $\frac{1}{2}$ kg. ..... 700 gm. (**<** or > or = or ≥)

24. $\frac{3}{4} : \frac{5}{6} = 9 :$ ..... (6 or **10** or 11 or 12)

25. $\frac{7}{20}$ = ... (7 % or 20 % or **35 %** or 42 %)

26. In the parallelogram , the sum of the measures of any two consecutive angles = ...° (45 or 90 or **180** or 360)

27. 4 m^3 = ... dm^3 (40 or 400 or **4 000** or 40 000)

28. 1.45 litres + 0.5 dm^3 = ... litres. (1.5 or **1.95** or 1.55 or 6.5)

29. If the numbers 4 , x , 12 , 18 are proportional , then x = ...

(6 or 8 or 10 or 12)

30. The cuboid has six faces each of them is .....

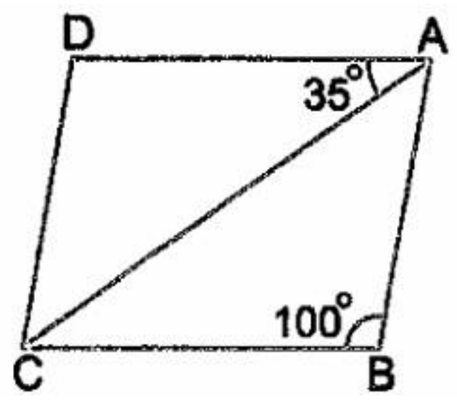
(a rectangle or a square or a rhombus or a cube)

31. If the real length of an insect is 0.3 mm. and its length in a picture 4.5 cm. , then the drawing scale = ...

(1 : 15 or 1 : 150 or 150 : 1 or 15 : 1)

32. **In the opposite figure :**
ABCD is parallelogram
, then m (∠ ACD) = ...

(35° or 55° or 45° or 60°)



33. If $\frac{4}{6} = \frac{8}{x}$, then $x + 2$ = ...

(15 or 14 or 16 or 12)

34. The ratio between 15 hours , one day = ...

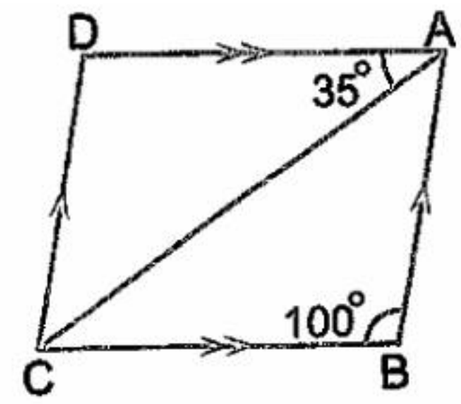
(1 : 15 or 15 : 1 or 8 : 5 or 5 : 8)

35. All of the following data are quantitative except .....

(tallness or age or name or phone number)

36. **In the opposite figure :**
ABCD is parallelogram
, then m (∠ ADC) = ...

(35° or 45° or 100° or 135°)



37. If one of angles of the parallelogram is right , then the resulting figure is a .....

(rectangle or square or rhombus or cube)

38. If the volume of a cuboid = 300 cm^3 , its base area = 25 cm^2 , then its height = ... cm.

(12 or 13 or 14 or 15)

39. If one angle of the parallelogram is right and its sides are equal in length , then it is called .....

(square or rhombus or triangle or rectangle)

40. The diagonals are perpendicular and have the same length in the .....
(square or rectangle or trapezium or parallelogram)

41. 12 % of 500 kg. = ... kg. (40 or 50 or 60 or 70)

42. $\frac{x}{5}$ = 60 % , then x + 3 = ... (3 or 6 or 600 or 30)

43. If the drawing scale > 1 , then this expresses .....
(magnification or reduction or congruent or otherwise)

44. Parallelogram with equal diagonals in length is called .....
(trapezium or rectangle or rhombus or square)

45. A car consumes 4 litres of fuel to cover distance 100 km. , then the rate of consumption is ..... litre per km. (25 or 0.4 or 0.04 or 400)

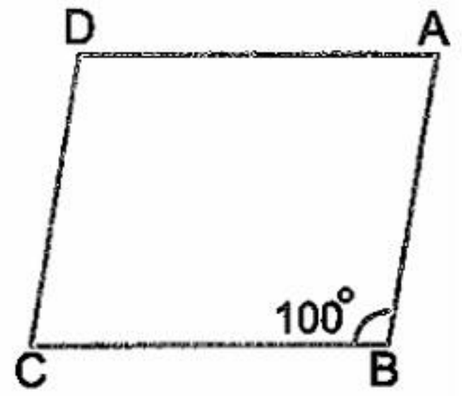
46. If the real length of a tree is 6 m. and its drawing , length is 3 cm. , then the drawing scale = ... : .....
(1 : 100 or 1 : 200 or 1 : 300 or 1 : 600)

47. 0.3 m^3 = ... dm^3 (3 000 or 300 or 30 or 3)

48. $\frac{4}{5}$ = ... % (50 or 60 or 70 or 80)

49. $\frac{1}{2}$ kg. : 700 gm. = ... (2 : 7 or $\frac{7}{8}$ or $\frac{5}{7}$ or $\frac{7}{9}$)

50. **In the opposite figure :**
ABCD is a parallelogram , then :
m (∠ D) = ... °
(100 or 60 or 80 or 70)



51. The ratio between the length of the side of the equilateral triangle and its perimeter = ... : ..... (1 : 3 or 3 : 1 or 4 : 1 or 1 : 4)

52. Cuboid of dimensions (5 cm. , 2 cm. , 7 cm.) , its volume = ... cm^3
(24 or 48 or 65 or 70)